

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-4.0E
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Study Plan No.	2021/2022	University Specialization	Bachelor of Pharmacy
Course No.	0201535	Course Name	Therapeutics (2)
Credit Hours	3	Prerequisite *Co-requisite	Therapeutics (1)
Course Type	☐ Mandatory University Requirement ☐ University Elective Requirement	☐ Faculty Mandatory Requirement ☐ Support course family requirements	☒ Mandatory Requirement ☐ Elective Requirement
Teaching Style	☐ Full Online Learning	☐ Blended Learning	☒ Traditional Learning
Teaching Model	☐ 1 Synchronous: 1 Asynchronous	☐ 1 Face to Face: 1 Asynchronous	☒ 2 Traditional

Faculty Member and Study Divisions Information (to be filled in each semester by the subject instructor)

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Name	Academic rank	Office No.	Phone No.	E-mail	
Office Hours (Days/Time)	Sunday, Tuesday, Thursday ()		Monday, Wednesday ()		
Division number	Time	Place	Number of Students	Teaching Style	Approved Model
				Traditional Learning	2 Traditional

Brief Description

This course is the second of a three-part series. Therapeutics 2 will enable a student to continue to apply knowledge and develop skills needed by a pharmacist to provide patient care, using a systematic patient-care process to define and achieve the goals of optimizing safe, effective pharmacotherapy. This course serves the needs of all future pharmacists by focusing on core chronic disease states. This course briefly reviews the pharmacotherapy of various diseases with primary focus on applying therapeutic knowledge to care for patients with such disorders and these disorders include: Endocrinologic disorders, Respiratory disorders, Infectious disorders, Common Skin disorders.

Learning Resources

Course Book Information (Title, author, date of issue, publisher ... etc)	1. Pharmacotherapy: A Pathophysiologic Approach, by Joseph DiPiro, 11 th edition, 2020.
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	1. Clinical Pharmacology by P.N. Bennett and M.J. Brown, 11 th edition. 2. Pharmacotherapy Principles and Practice, Marie A. Chisholm-Burns, 5 th edition Disease management guidelines 3. Up to date (https://www.uptodate.com)
Supporting Websites	
The Physical Environment for Teaching	☒ Classroom ☐ Labs ☒ Virtual Educational Platform ☐ Others
Necessary Equipment and Software	Moodle
Supporting People with Special Needs	

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For Technical Support	E-Learning & Open Educational Resources Center. Email: ellearning@zu.edu.jo ; Phone: +962 6 429 1511 ext. 425/362.
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Course learning outcomes (K= Knowledge, S= Skills, C= Competencies)

No.	Course Learning Outcomes	The Associated Program Learning Output Code
Knowledge		
The student should be able to:		
K1	Identify patients' individual factors that may affect treatment	MK3
K2	Recognizing conventional pharmacological approaches to the therapeutic management and/or prophylaxis of the diseases covered in this course.	MK3
Skills		
The student should be able to:		
S1	Determine the most appropriate therapy for patients by integrating patient-specific factors, disease pathophysiology, and drug characteristics to maximize benefits and minimize risk.	MS1
S2	Interpret evidence from disease management guidelines	MS1
Competencies		
The student should be able to:		
C1	Integrate pharmacology, pharmacokinetics, and therapeutic principles to design an optimal therapeutic plan for a specific patient with specific conditions.	MC1

Mechanisms for Direct Evaluation of Learning Outcomes

Type of Assessment / Learning Style	Fully Electronic Learning	Blended Learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
Midterm Exam	30%	30%	30%	0%
Participation / Practical Applications	0%	0%	30%	60%
Asynchronous Interactive Activities	30%	30%	0%	0%
Final Exam	40%	40%	40%	40%

Note 1: Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, and work within student groups ... etc, which the student carries out on his own, through the virtual platform without a direct encounter with the subject teacher.

Note 2: According to the Regulations of granting Master's degree at Al-Zaytoonah University of Jordan, 40% of final evaluation goes for the final exam, and 60% for the semester work (examinations, reports, research or any scientific activity assigned to the student).

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Schedule of Simultaneous / Face-to-Face Encounters and their Topics

Week	Subject	Learning Style*	Reference **
1	Diabetes Miletus	Lecture	Chapter 43 (p. 655-685)
2	Diabetes Miletus and related dyslipidemia	Lecture	Chapter 43 (p. 655-685)
3	Diabetes Miletus Complications	Lecture	Chapter 43 (p. 655-685)
4	Asthma	Lecture	Chapter 14 (p. 251-269)
5	Asthma	Lecture	Chapter 14 (p. 251-269)
6	COPD	Lecture	Chapter 15 (p. 269-253)
7	COPD	Lecture	Chapter 15 (p. 269-253)
8	Principles of antimicrobial therapy	Lecture	Chapter 72 (p. 1151-1166)
9	Lower Respiratory Tract Infections Midterm exam	Lecture	Chapter 74 (p. 1185-1198)
10	Lower Respiratory Tract Infections	Lecture	Chapter 74 (p. 1185-1198)
11	Upper Respiratory Tract Infections	Lecture	Chapter 75 (p. 1199-1216)
12	Upper Respiratory Tract Infections	Lecture	Chapter 75 (p. 1199-1216)
13	Urinary Tract Infections	Lecture	Chapter 82 (p. 1289-1298)
14	Common Skin Disorders (Dermatitis)	Lecture	Chapter 67 Section 13 (p.1065-1103)
15	Common Skin Disorders (Psoriasis)	Lecture	Chapter 68 Section 13 (p.1065-1103)
16	Final exam		

* Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

** Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.

Schedule of Asynchronous Interactive Activities (in the case of e-learning and blended learning)

Week	Task / Activity	Reference	Expected Results
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